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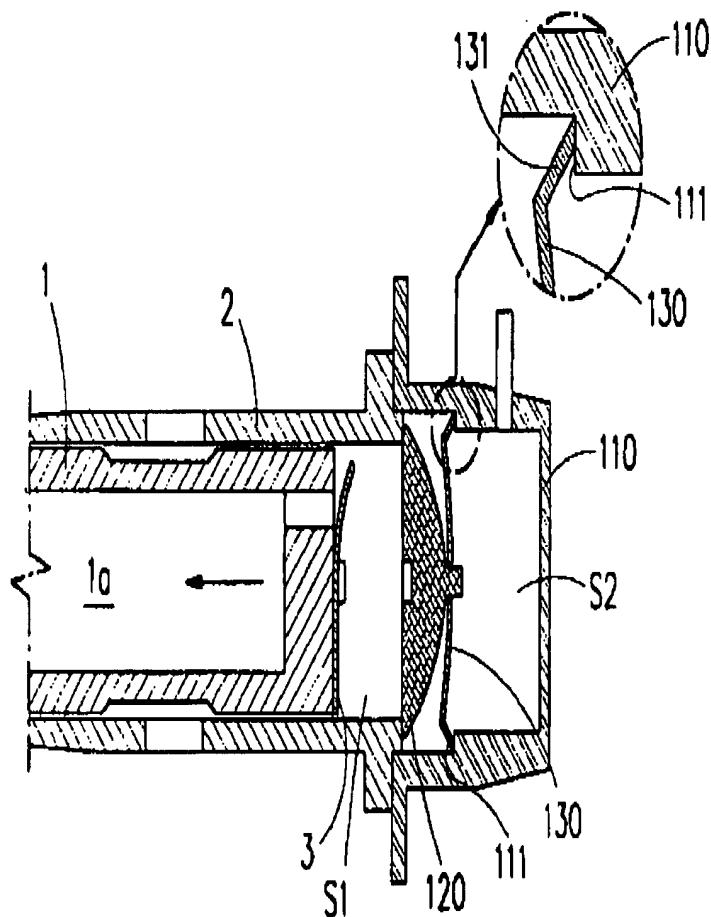
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STRUCTURE FOR SUPPORTING VALVE SPRING OF DISCHARGE VALVE ASSEMBLY

Representative drawing

(57) Abstract:



PURPOSE: A structure for supporting a valve spring of a discharge valve assembly is provided to prevent noise by not making a valve spring act the relative motion with a discharge cover.

CONSTITUTION: Refrigerant gas is introduced into a compressing space(S1) by opening a suction valve(3) through the backward movement of a piston(1). The refrigerant gas is compressed by the piston and then discharged to outside through a discharge pipe(140) from another space(S2). At the same time, the refrigerant gas flows into the empty discharge space(S2) through a gap between the discharge valve and cover (120,110) when the discharge valve is displaced from a cylinder(2). The compressing space has relatively lower pressure than the discharge one in the backward movement of the piston. Thus, the discharge valve returns to the cylinder with a valve spring(130) to divide the two spaces. Both ends of the valve spring are fixed, but the central portion supports the discharge valve in reciprocating motion of the discharge valve.

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